

Abstract

METHOD FOR REMOVING OIL, PETROLEUM PRODUCTS AND/OR  
CHEMICAL POLLUTANTS FROM LIQUID AND/OR GAS AND/OR SURFACE

The invention relates to the field of ecology, in particular to the struggle against pollution of the environment with oil, petroleum products, cyclic and aromatic hydrocarbons, other chemical pollutants, i.e. to purification of a water area, waste waters, industrial machinery, polluted soil and ground, etc., and also to the field of objects used to satisfy the vital requirements of humans and to medicine.

A method for removing chemical pollutants includes preparing a carbonaceous mixture of an expanded graphite and carbonaceous nanocrystals of a graphite-containing feedstock, dispersing it onto the surface and/or into a liquid and/or placing on a surface and/or passing a liquid or gas through a filter, and collecting the carbonaceous mixture saturated with the pollutants. The method is used for collecting oil and petroleum products from the surface of water, for filtering drinking water, is used for removing volatile fractions of petroleum products or gaseous condensate from free basins of storage reservoirs, for neutralizing exhaust gases of internal combustion engines as the base of a matrix of a neutralizer of exhaust gases, for filtering cigarette smoke, for purifying blood plasma, for external use in the case of skin integument diseases characterized by discharges.

The invention makes it possible to enhance the effectiveness of the removal of oil and petroleum products and also to ensure the removal of other chemical pollutants.